



National Energy  
Board

Office national  
de l'énergie

***APPENDICES***

**ANNUAL REPORT 2005  
TO PARLIAMENT**



Canada

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## A1. CRUDE OIL AND EQUIVALENT SUPPLY AND DISPOSITION

(thousand cubic metres per day)

	2001	2002	2003	2004	2005 <sup>e)</sup>
<b>Supply</b>					
Canadian Production <sup>a)</sup>	347.4	371.7	392.4	407.0	391.9
Imports <sup>b)</sup>	146.4	140.0	144.0	148.6	143.5
<b>Total Supply<sup>d)</sup></b>	<b>493.8</b>	<b>511.7</b>	<b>536.4</b>	<b>555.6</b>	<b>535.4</b>
<b>Disposition</b>					
Domestic <sup>b)</sup>	282.2	287.7	294.6	304.6	291.6
Exports <sup>c)</sup>	222.9	232.6	245.6	259.6	252.7
<b>Total Disposition<sup>d)</sup></b>	<b>505.1</b>	<b>520.3</b>	<b>540.2</b>	<b>564.2</b>	<b>544.3</b>

a) Source: NEB

b) Source: Statistics Canada/NEB Weekly Crude Run Report

c) Source: NEB Form 306 - Crude Oil Exports

d) Total supply does not equal total disposition due to inventory changes, losses/gains, etc.

e) Estimate

## A2. ESTIMATED ESTABLISHED RESERVES OF CRUDE OIL AND BITUMEN AS OF 31 DECEMBER 2004

(million cubic metres)

	Initial	Remaining
<b>Conventional Crude Oil</b>		
British Columbia <sup>a)</sup>	126.0	21.9
Alberta <sup>b)</sup>	2 665.0	249.3
Saskatchewan <sup>c)</sup>	858.7	187.8
Manitoba <sup>d)</sup>	40.5	4.3
Ontario <sup>e)</sup>	14.7	2.0
NWT, Nunavut and Yukon:		
Arctic Island and Eastern Arctic Offshore <sup>f)</sup>	0.5	—
Mainland Territories - Norman Wells	53.3	16.8
Nova Scotia <sup>d)</sup> - Cohasset and Panuke	7.0	—
Newfoundland <sup>d)</sup> - Hibernia, Terra Nova and White Rose	239.0	157.8
<b>Total</b>	<b>4 004.7</b>	<b>639.9</b>
<b>(Total in millions of barrels)</b>	<b>(25 201)</b>	<b>(4 027)</b>
<b>Crude Bitumen</b>		
Oil Sands - Upgraded Crude <sup>b)</sup>	5 590	5 090
Oil Sands - Bitumen <sup>b)</sup>	22 802	22 570
<b>Total</b>	<b>28 392</b>	<b>27 660</b>
<b>(Total in millions of barrels)</b>	<b>(178 668)</b>	<b>(174 062)</b>
<b>Total Conventional and Bitumen</b>	<b>32 397</b>	<b>28 300</b>
<b>(Total in millions of barrels)</b>	<b>(203 869)</b>	<b>(178 088)</b>

a) British Columbia Ministry of Energy and Mines and NEB common database

b) Alberta Energy and Utilities Board and NEB common database

c) Saskatchewan Reservoir Annual 2003

d) Provincial Agencies and Offshore Boards

e) Canadian Association of Petroleum Producers

f) Bent Horn abandoned in 1996

### Note:

Totals may not add up due to rounding.

### A3. NATURAL GAS SUPPLY AND DISPOSITION (billion cubic meters)

	2001	2002	2003	2004	2005 <sup>d)</sup>
<b>Supply</b>					
Marketable Gas Production <sup>a)</sup>	179.2	179.0	173.7	175.4	177.1
Imports	7.4	8.3	12.4	12.5	12.2
<b>Total Supply</b>	<b>186.6</b>	<b>187.3</b>	<b>186.1</b>	<b>187.8</b>	<b>189.3</b>
<b>Disposition</b>					
Domestic <sup>b)</sup>	66.8	70.2	73.1	72.3	70.6
Exports	106.3	107.1	98.6	102.2	105.7
Other Uses <sup>c)</sup>	13.5	10.0	14.4	13.4	13.0
<b>Total Disposition</b>	<b>186.6</b>	<b>187.3</b>	<b>186.1</b>	<b>187.8</b>	<b>189.3</b>

a) Source: Canadian Association of Petroleum Producers

b) Statistics Canada

c) Includes pipeline fuels and losses, reprocessing, shrinkage and fuel, and net storage inventory change.

d) Estimate

### A4. ESTIMATED ESTABLISHED RESERVES OF MARKETABLE NATURAL GAS AS OF 31 DECEMBER 2004 (billion cubic metres)

	Initial	Remaining
British Columbia <sup>a)</sup>	822.1	284.3
Alberta <sup>b)</sup>	4 496.2	1 127.1
Saskatchewan <sup>c)</sup>	224.6	75.0
Ontario <sup>d)</sup>	33.8	11.5
NWT, Nunavut and Yukon <sup>d)</sup>	32.1	14.1
Nova Scotia - Offshore <sup>c)</sup>	54.6	32.5
<b>Total</b>	<b>5 663.4</b>	<b>1 544.5</b>
<b>(Total in trillion cubic feet, Tcf)</b>	<b>(199.9)</b>	<b>(54.5)</b>

a) British Columbia Ministry of Energy and Mines and NEB common database

b) Alberta Energy and Utilities Board and NEB common database

c) NEB Estimate

d) Canadian Association of Petroleum Producers

### A5. NATURAL GAS LIQUIDS SUPPLY AND DISPOSITION (thousand cubic metres per day)

	2001	2002	2003	2004	2005 <sup>d)</sup>
<b>Supply</b>					
Canadian Production <sup>a)</sup>	92.9	95.6	94.4	96.3	94.2
Imports <sup>b)</sup>	1.7	1.5	1.5	1.8	1.7
<b>Total Supply<sup>d)</sup></b>	<b>94.6</b>	<b>97.1</b>	<b>95.9</b>	<b>98.1</b>	<b>95.9</b>
<b>Disposition</b>					
Domestic <sup>b)</sup>	64.4	66.7	68.2	70.1	70.8
Exports <sup>b)</sup>	28.3	31.8	27.9	29.1	25.0
<b>Total Disposition<sup>c)</sup></b>	<b>92.7</b>	<b>98.5</b>	<b>96.1</b>	<b>99.2</b>	<b>95.8</b>

a) Source: NEB

b) Source: NEB Commodities Tracking System

c) Total supply may not equal total disposition due to inventory changes, etc.

e) Estimate

## A6. GEOPHYSICAL ACTIVITY

(active seismic crews)

	2001	2002	2003	2004	2005
January	39	27	35	25	24
February	50	49	44	27	24
March	61	60	40	30	25
April	23	35	22	17	14
May	27	14	11	9	8
June	31	8	12	9	8
July	36	18	12	8	12
August	37	28	11	13	13
September	34	20	12	10	12
October	25	21	19	12	14
November	23	26	18	17	18
December	24	21	19	16	14

Source: Petroleum Explorer

## A7. EXPLORATION AND DEVELOPMENT EXPENDITURES <sup>a)</sup>

(million \$)

	2001	2002	2003	2004	2005 <sup>b)</sup>
<b>Exploration</b>					
Conventional Areas <sup>a)</sup>	6 640	4 667	6 247	6 291	7 500
Frontier Areas <sup>b)</sup>	847	838	666	502	590
<b>Total Canada</b>	<b>7 487</b>	<b>5 505</b>	<b>6 913</b>	<b>6 793</b>	<b>8 090</b>
<b>Development</b>					
Conventional Areas <sup>a)</sup>	12 975	11 093	15 153	18 281	21 830
Frontier Areas <sup>b)</sup>	1 336	1 388	1 772	1 753	2 480
<b>Total Canada</b>	<b>14 311</b>	<b>12 481</b>	<b>16 925</b>	<b>20 034</b>	<b>24 310</b>
<b>Sub Total</b>	<b>21 798</b>	<b>17 986</b>	<b>23 838</b>	<b>26 827</b>	<b>32 400</b>
<b>Oil Sands</b>	<b>5 907</b>	<b>6 751</b>	<b>5 048</b>	<b>6 183</b>	<b>6 700</b>
<b>Total Expenditures</b>	<b>27 705</b>	<b>24 737</b>	<b>28 886</b>	<b>33 010</b>	<b>39 100</b>

a) Net cash expenditures excluding operating costs and royalties.

b) Estimate

Source: Canadian Association of Petroleum Producers

## A8. SALES OF EXPLORATION RIGHTS IN WESTERN CANADA

	2001	2002	2003	2004	2005
<b>Area (1 000 ha)</b>					
Alberta	3 908	2 776	3 140	3 116	2 861
British Columbia	854	849	733	540	952
Saskatchewan	373	654	1 060	912	244
Manitoba	22	3	4	15	13
<b>Total</b>	<b>5 157</b>	<b>4 281</b>	<b>4 938</b>	<b>4 583</b>	<b>4 070</b>
<b>Price (million \$)</b>					
Alberta	1 086	501	904	1 106	1 853
British Columbia	440	288	647	232	423
Saskatchewan	56	103	159	93	46
Manitoba	1	—	—	1	1
<b>Total Price</b>	<b>1 583</b>	<b>893</b>	<b>1 710</b>	<b>1 432</b>	<b>2 323</b>

Source: Daily Oil Bulletin

## A9. SALES OF EXPLORATION RIGHTS IN FRONTIER REGIONS

	2001	2002	2003	2004	2005
<b>Nova Scotia Offshore</b>					
Licences	8	9	–	2	–
Expenditures (million \$)	192	527	–	14	–
Area (1 000 ha)	1 254	1 580	–	150	–
<b>Newfoundland Offshore</b>					
Licences	10	9	–	8	5
Expenditures (million \$)	89	15	–	673	71
Area (1 000 ha)	1 599	1 179	–	2 125	270
<b>Beaufort Sea and Mackenzie Delta</b>					
Licences	–	2	–	1	–
Expenditures (million \$)	–	14	–	62	–
Area (1 000 ha)	–	46	–	56	–
<b>Central Mackenzie Valley</b>					
Licences	5	–	1	4	6
Expenditures (million \$)	17	–	1	63	58
Area (1 000 ha)	398	–	80	235	446
<b>Total</b>					
Licences	23	20	1	15	11
Expenditures (million \$)	298	556	1	812	129
Area (1 000 ha)	3 251	2 805	80	2 566	716

Source: DIAND, C-NSOPB, C-NLOPB

## A10. ELECTRICITY GENERATION AND DISPOSITION

(terawatt hours)

	2001	2002	2003	2004	2005 <sup>b)</sup>
<b>Supply</b>					
Total Generation	565.8	578.8	564.2	567.8	568.9
Imports <sup>a)</sup>	16.1	13.0	23.6	22.5	19.3
<b>Total Supply</b>	<b>581.9</b>	<b>591.8</b>	<b>587.8</b>	<b>590.3</b>	<b>588.2</b>
<b>Disposition</b>					
Demand	543.5	555.6	558.5	548.8	549.1
Exports <sup>a)</sup>	38.4	36.2	29.3	33.0	42.9
<b>Total Disposition</b>	<b>581.9</b>	<b>591.8</b>	<b>587</b>	<b>590.3</b>	<b>592.0</b>

a) Includes service flows and other adjustments.

b) Estimate

Source: Statistics Canada, NEB

## **B1. CERTIFICATES ISSUED DURING 2005 APPROVING OIL PIPELINE FACILITIES INCLUDING PIPELINE CONSTRUCTION EXCEEDING 40 KILOMETRES IN LENGTH**

There were no certificates issued for pipelines exceeding 40 km.

## **B2. ORDERS ISSUED DURING 2005 APPROVING OIL PIPELINE FACILITIES INCLUDING PIPELINE CONSTRUCTION NOT EXCEEDING 40 KILOMETRES IN LENGTH**

<b>Applicant</b>	<b>Order Number</b>	<b>Date issued</b>	<b>Description</b>	<b>Estimated Cost (\$)</b>
Enbridge Pipelines Inc.	XO-E101-09-2005	2005-08-05	Addition of redundant pressure transmitters.	842 000
	XO-E101-11-2005	2005-08-12	Twelve Projects	2 347 800
	XO-E101-12-2005	2005-08-19	Nine Projects	1 062 000
	XO-E101-16-2005	2005-12-15	Refinery Transfer Facilities	11 500 000
Enbridge Pipelines (NW) Inc.	XO-E102-04-2005	2005-03-24	Five projects.	326 000
Montreal Pipe Line Limited (MPL)	XO-M003-13-2005	2005-09-29	Deactivate the 273 mm (10 inch) outside diameter by-pass line across the Richelieu River in Quebec	14 888
Provident Energy Pipeline Inc.	XO-P115-14-2005	2005-10-26	Taylor to Boundary Lake Pipeline Beatton Slope Remediation	
Terasen Pipelines (Trans Mountain) Inc.	XO-T099-03-2005	2005-02-08	Construction of rock armouring and a rock apron for the Athabasca River East Bank Armouring Project.	
	XO-T099-02-2005	2005-02-08	Pocahontas Valve Vault, Km 336; Yellowhead Valve Vault, Km 416; and Grandbrook Valve Vault, Km 429.	
	XO-T009-15-2005	2005-11-09	TransMountain Pump Station Expansion Project	193 000 000
Trans-Northern Pipelines Inc.	XO-T002-01-2005	2005-01-28	Pipeline Replacements in the municipalities of Toronto, Pickering and the Region of Durham, Ontario.	850 000
	XO-T002-05-2005	2005-06-10	Relocation of a Segment of Pipeline in the City of Toronto, Ontario.	225 000
	XO-T002-06-2005	2005-06-24	Pipeline Replacements in the City of Quinte West, Ontario.	200 000
	XO-T002-07-2005	2005-06-24	Pipeline Replacements in the Township of Augusta, Ontario.	150 000
	XO-T002-08-2005	2005-07-28	Pipeline Replacements, Municipality of Clarington, Province of Ontario.	420 000
	XO-T002-10-2005	2005-08-11	Pipeline Replacements in the Municipality of Toronto	500 000



**B3. EXPORTS OF CANADIAN CRUDE OIL AND EQUIVALENT**  
(cubic metres)

Consignee	2004		2005 <sup>a)</sup>	
	Total	Daily Average	Total	Daily Average
BP Amoco	8 421 184	23 009	10 666 629	29 224
Cenex Harvest States Cooperative	2 935 095	8 019	2 826 598	7 744
Chevron Texaco	1 219 466	3 332	883 651	2 421
ConocoPhillips Company	14 645 635	40 015	14 501 292	39 730
ExxonMobil Corporation	14 347 800	39 202	14 349 817	39 315
Flint Hill Resources	13 112 665	35 827	13 020 763	35 673
Flying J. Inc.	405 078	1 107	308 655	846
Frontier Oil & Refining Company	1 552 578	4 242	1 742 610	4 774
Giant Industries	939 544	2 567	932 463	2 555
Holly Refining & Marketing Company	82 128	224	28 047	77
Marathon Ashland Petroleum LLC	7 466 720	20 401	6 353 238	17 406
Mantana Refining Company	402 492	1 100	447 482	1 226
Murphy Oil USA Inc.	1 802 833	4 926	1 149 223	3 149
National Cooperative Refining LLC	412 230	1 126	369 804	1 013
PDV Midwest Refining	8 168 221	22 318	7 560 674	20 714
Shell Oil Company	2 216 481	6 056	940 421	2 576
Sinclair Oil Corp.	2 121 151	5 795	2 260 676	6 194
Sun Refining and Marketing Company	3 933 487	10 747	3 763 691	10 311
Suncor Energy USA	1 702 314	4 651	1 613 443	4 420
Tesoro Refining	4 459 590	12 185	3 658 373	10 023
U.S. Oil & Refining Co.	19 230	53	—	—
United Refining Company	3 598 181	9 831	3 627 238	9 938
Valero Marketing & Supply	917 530	2 507	1 165 732	3 194
Wyoming Refining Co.	117 106	320	—	—
Other	33 151	91	80 000	219
<b>Total</b>	<b>95 031 890</b>	<b>259 650</b>	<b>92 250 518</b>	<b>252 741</b>

a) Estimate

**B4. EXPORTS OF CANADIAN CRUDE OIL AND EQUIVALENT – 2001 TO 2005**  
(cubic metres per day)

	2001	2002	2003	2004	2005 <sup>a)</sup>
Light Crude Oil and Equivalent	80 227	89 742	88 562	97 393	82 034
Heavy Crude Oil	140 650	142 822	157 064	162 257	170 707
<b>Total</b>	<b>220 877</b>	<b>232 564</b>	<b>245 626</b>	<b>259 650</b>	<b>252 741</b>

a) Estimate

**B5. EXPORTS OF PETROLEUM PRODUCTS BY MONTH – 2005<sup>a)</sup>**  
(cubic metres)

Month	Motor Gasoline	Middle Distillates	Heavy Fuel Oil	Avation Turbine Fuel	Partially Processed Oil	Total
January	774 343	721 135	277 282	19 210	10 194	1 802 161
February	764 035	612 431	98 585	12 015	50 995	1 538 061
March	720 143	728 776	283 703	9 581	49 439	1 791 641
April	976 786	521 167	197 012	22 908	49 552	1 767 425
May	612 676	539 219	238 721	3 343	79 224	1 473 183
June	709 791	472 148	276 914	2 664	18 832	1 480 349
July	675 151	598 182	259 083	41 552	20 388	1 594 356
August	779 819	579 061	323 546	84 363	17 595	1 784 385
September	830 350	557 704	270 014	78 372	0	1 736 440
October	936 240	628 988	230 983	24 986	0	1 821 196
November	688 626	695 316	302 043	16 572	0	1 702 556
December <sup>b)</sup>	757 488	764 847	332 247	18 229	16 555	1 889 366
<b>Total</b>	<b>9 225 448</b>	<b>7 418 974</b>	<b>3 090 131</b>	<b>333 793</b>	<b>312 774</b>	<b>20 381 120</b>

a) Excludes propane, butane, lubricants, greases, asphalt, petrochemicals, etc.

b) Estimate

**B6. EXPORTS OF PETROLEUM PRODUCTS BY COMPANY – 2004 and 2005**  
(cubic metres)

Exporter	2004	2005 <sup>a)</sup>
BP Canada Energy Company	–	1 250
Cenex Harvest States Cooperative	22 779	1 911
Chevron Canada Limited	168 648	167 252
Consumers Co-operative Refineries Ltd.	61 266	62 785
Flint Hills Resources, L.P.	72	–
Four Directions Petroleum (First Nation)	7 196	–
Graham Energy Ltd.	–	880
Griffith Oil Co.	41 522	46 788
Husky Oil Marketing Ltd.	23 767	9 783
Imperial Oil Limited	1 301 922	1 098 754
Irving Oil Limited	9 147 156	10 413 282
Kildair Service Ltee.	138 262	124 825
Lukoil Pan Americas LLC	19 627	–
MacEwen Petroleum Inc.	48 114	14 232
McAsphalt Industries Ltd.	14 331	2 473
MX Petroleum Corp.	65 210	51 089
NRG Power Marketing Inc.	–	28 315
Neste Petroleum (Canada) Inc.	4 217	9 890
North 60 Petro Ltd.	18 244	14 392
North Atlantic Refining Limited	5 065 686	5 089 281
Novacor Chemicals (Canada) Ltd.	104 577	157 215
Olco Oil	171 459	215 875
Petro-Canada Products	254 284	195 781
Petrogas Marketing Ltd.	–	48
PMC (NOVA SCOTIA)	1 789	–
Shell Canada Products Limited	433 354	394 399
Suncor Energy Marketing Inc.	397 612	169 823
Ultramar Canada Inc.	1 438 183	2 110 659
Warner Petroleum Corporation	29 527	–
White Arrow Service Stations Inc.	28 721	139
<b>Total</b>	<b>19 007 526</b>	<b>20 381 120</b>

a) Estimate

## C1. CERTIFICATES ISSUED DURING 2005 APPROVING THE CONSTRUCTION OF GAS PIPELINE FACILITIES EXCEEDING 40 KILOMETRES IN LENGTH

There were no certificates issued for pipelines exceeding 40 km.

## C2. ORDERS ISSUED DURING 2005 APPROVING THE CONSTRUCTION OF GAS PIPELINE FACILITIES NOT EXCEEDING 40 KILOMETRES IN LENGTH

Applicant	Order Number	Date Issued	Description	Estimated Cost (\$)
Alliance Pipeline Ltd.	XG-A159-01-2005	2005-01-17	Windfall Compressor Station – Additional Aerial Cooler Facilities in northwestern Alberta	5 714 000
806026 Alberta Ltd.	XG-Z007-03-2005	2005-02-14	Application for Pesh Creek Pipeline Loop	N/A
BC Pipeline and Field Services Divisions	XG-W005-19-2005	2005-06-17	Increase the Maximum Operating Pressure of 168.3 mm O.D. Red Willow Pipeline and New Tap Connection to the 406.4 mm O.D. Grizzly Extension Pipeline	300 000
Canadian Natural Resources Limited	XG-C298-39-2005	2005-11-24	Tupper South Pipeline Loop Shekile Gas Pipeline	N/A
ConocoPhillips Canada Limited	XG-C216-26-2005	2005-08-03	Installation of facilities to inject natural gas liquids into TCPL	N/A
	XG-C216-28-2005	2005-08-16	PTC Dewdney Spur to TCPL Injection Project	N/A
Echoex Energy Inc.	XG-E135-05-2005	2005-02-23	Application dated 6 December 2004 for the Reflex Lake Interprovincial Provincial Pipeline from 06-34-43-28 W3M to 06-01-44-01 W4M.	N/A
Enbridge Gas Distribution Inc.	XG-Z009-06-2005 XG-Z009-07-2005	2005-03-03	Name change from Consumers Gas (Canada) Limited to 2193914 Canada Limited	N/A
EnCana Oil & Gas Co. Ltd.	XG-E126-36-2005	2005-09-22	Tupper South Pipeline Loop	2 000 000
	XG-E126-37-2005	2005-11-03	Mid -Tupper Pipelines	1 600 000
Gazoduc TQM Inc.	XG-T028-38-2005	2005-11-29	Addition of Compression and Complementary Gas Cooling System at Lachenaie Compressor Station	N/A
Manitoba Hydro	XG-M025-31-2005	2005-08-25	Replacing Section of Minell Natural Gas Pipeline Silver Creek – Binscarth, Manitoba	145 000
Maritimes & Northeast Pipeline Management Ltd. (M&NP)	XG-M124-16-2005	2005-05-31	Custody Transfer Station Facilities for Heritage Gas Limited, Amherst, N.S.	N/A
Nexen Inc. (Nexen)	XG-N085-41-2005	2005-12-02	Nexen Cuthbert Pipeline	N/A
Profico Energy Management Ltd. (Profico)	XG-P156-32-2005	2005-08-25	Interprovincial Pipeline Development (from 11-36-11-1W4 to 8-2-12-30W3)	242 000
TQM Pipeline (TQM)	XG-T028-29-2005	2005-08-16	Construction of an NPS 16 Side Valve	492 000
TransCanada PipeLines Limited (TransCanada)	XG-T001-02-2005	2005-02-04	Cathodic Protection Program (No. 1) – Ontario	63000
	XG-T001-08-2005	2005-03-04	2005 Contaminant Sampling and Remediation Program – Station 25	1 630 000
	XG-T001-15-2005	2005-05-24	2005 Contaminant Sampling and Remediation Program – Station 130	556 000
	XG-T001-18-2005	2005-06-13	2005 Cathodic Protection Program (No.2)	605 000
	XG-T001-20-2005	2005-06-28	2005 Cathodic Protection Program (No.6) – Deep Ground Beds in Manitoba	847 000
	XG-T001-22-2005	2005-07-05	2005 Cathodic Protection Program (No.3)	217 000
	XG-T001-23-2005	2005-07-06	Cathodic Protection Program (No.5) – Deep Ground Beds in Saskatchewan.	1 335 000

**C2. ORDERS ISSUED DURING 2005 APPROVING THE CONSTRUCTION OF GAS PIPELINE FACILITIES NOT EXCEEDING 40 KILOMETRES IN LENGTH (CONTINUED)**

Applicant	Order Number	Date issued	Description	Estimated Cost (\$)
	XG-T001-24-2005	2005-07-20	Cathodic Protection Program (No.4) - Ontario	2 033 000
	XG-T001-25-2005	2005-07-21	2005 Cathodic Protection Program (No. 7) - Saskatchewan and Ontario	419 500
	XG-T001-30-2005	2005-08-24	Grand Coulee Receipt Station	975 000
	XG-T001-40-2005	2005-12-02	Les Cèdres Loop	N/A
Westcoast Energy Inc. (Westcoast)	XG-W005-04-2005	2005-02-23	Installation of facilities to permit the reactivation of the Ekwan Pipeline	N/A
	XG-W005-12-2005	2005-04-21	No. 1 Sikanni Re-injection Pipeline northwest of Fort St. John, B.C.	7 300 000
	XG-W005-13-2005	2005-04-21	26" BC Trunk Pipeline Replacement Project - kP 41.2	616 000
	XG-W005-34-2005	2005-09-19	Deactivation of 323.9 mm Upper Murray River and 219.1 Sukunka Pipelines	268 000
Westcoast Energy Inc., carrying on business as Duke Energy Gas Transmission (Westcoast)	XG-W005-09-2005	2005-03-07	Flare Site Upgrades - Fort Nelson Gathering Area	411 000
	XG-W005-10-2005	2005-03-08	No. 5 Drain Pond Upgrade - FNGP	100 000
	XG-W005-11-2005	2005-03-16	Milligan Peejay Pipelines Reconfiguration; Deactivate the 219.1 mm Milligan Peejay Extension Pipeline between km 11.99 and km 21.24	520 000
	XG-W005-14-2005	2005-05-18	C & D MEA Storage Tank Replacement - Fort Nelson Gas Plant	323 000
	XG-W005-21-2005	2005-07-04	Daniels Creek Pipeline Replacement - Fort Nelson Mainline	2 200 000
	XG-W005-27-2005	2005-08-10	Stewart Creek Barrel Installation and Pipeline Deactivation - Fort St. John Mainline	2 970 000
	XG-W005-33-2005	2005-09-01	Monias Booster Station (BS-17) Reactivation	3 575 000
	XG-W005-35-2005	2005-09-21	16-Inch Beg Pipeline Reactivation	60 000

N/A Not applicable

### C3. LICENCES AND LONG-TERM ORDERS TO EXPORT NATURAL GAS AS OF 31 DECEMBER 2005

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>3</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
AG-Energy L.P.	GL-182	Iroquois, Ont.	1993-11-01	2008-10-31	467.0	170.6	2 587.0
			2008-11-01	2008-12-31	467.0	28.5	
Alberta Northeast Gas, Limited and AEC Oil and Gas Company	GL-105	Iroquois, Ont.	1992-11-01	2006-10-31	533.0	194.7	2 714.0
			2006-11-01	2007-03-31	533.0	80.5	
Alberta Northeast Gas, Limited and ATCOR Ltd.	GL-104	Iroquois, Ont.	1992-11-01	2006-10-31	1 057.0	386.1	5 428.0
			2006-11-01	2007-03-31	1 057.0	159.7	
Alberta Northeast Gas, Limited and ProGas Limited	GL-103	Iroquois, Ont.	1992-11-01	2006-10-31	1 870.0	683.0	10 236.0
			2006-11-01	2007-03-31	1 870.0	282.6	
Alberta Northeast Gas, Limited and Cargill Gas Marketing, Ltd.	GL-102	Iroquois & Niagara Falls, Ont. combined maximum	1992-11-01	2006-10-31	7 790.3	2 845.3	42 646.0
			2006-11-01	2007-02-28	7 790.3	935.5	
			1992-11-01	2006-10-31	7 507.0	2 741.9	
			2006-11-01	2007-02-28	7 507.0	901.5	
		Maximum permitted at Niagara Falls, Ont. as part of combined Iroquois/Niagara Falls volume	1991-11-01	2006-10-31	283.3	103.4	
			2006-11-01	2007-02-28	283.3	34.0	
Androscooggin Energy LLC	GL-283	Cornwall, Ont.	1999-11-01	2009-10-31	1 242.0	453.4	4 534.0
		East Hereford, Quebec	1999-11-01	2009-10-31	1 242.0	453.4	
		Niagara Falls, Ont.	1999-11-01	2009-10-31	1 242.0	453.4	
Bearpaw Energy Inc.	GO-59-96	North Portal, Sask.	1999-03-26	2009-03-01	30.0	N/S	N/S
Brooklyn Navy Yard Cogen Partners, L.P.	GL-232	Iroquois, Ont.	1996-10-01	2011-09-30	750.0	274.0	5 480.0
CanWest Gas Supply Inc.	GL-218	Huntingdon, B.C.	1993-11-01	2008-10-31	273.2	100.0	1 495.0
Cargill Gas Marketing Ltd.	GL-110	Iroquois & Niagara Falls, Ont.	2001-11-01	2012-10-31	708.2	258.5	5 443.2
			2001-11-01	2007-10-31	283.0	103.7	1 552.0
			2002-05-23	2006-10-31	906.0	332.0	4 980.0
			2001-11-01	2008-10-31	509.0	186.6	2 800.0
Chevron Canada Resources Limited	GL-250	Kingsgate, B.C.	1996-11-01	2010-10-31	585.8	214.4	3 210.0
			2010-11-01	2012-08-30	585.8	142.9	
CoEnergy Trading Company	GL-276	East Hereford, Que. Emerson, Man combined maximum	1999-03-10	2009-03-09	2 266.2	827.2	8 272.0
					2 266.2	827.2	
	GOL-5-98 <sup>a)</sup>	Emerson, Man.	1998-11-01	2008-10-31	N/S	N/S	N/S
Coral Energy Canada Inc.	GL-134	Niagara Falls, Ont.	1990-11-01	2010-10-31	450.0	145.0	2 755.0
			2010-11-01	2011-08-31	450.0	95.9	
	GL-181	Monchy, Sask.	1992-11-01	2006-10-31	580.0	212.0	3 181.0
			2006-11-01	2009-11-01	580.0	173.4	

### C3. LICENCES AND LONG-TERM ORDERS TO EXPORT NATURAL GAS AS OF 31 DECEMBER 2005 (CONTINUED)

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>3</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
	GOL-6-03 <sup>b)</sup>	Elmore, Sask.	2003-12-04	2013-12-04	N/S	N/S	N/S
Devon Louisiana Corp (Previously: Ocean Energy, Inc.)	GOL-12-95 <sup>d)</sup>	Willow Creek, Sask. & Emerson, Man	1998-08-26	2008-12-31	N/S	N/S	N/S
Direct Energy Marketing Limited	GL-188	East Hereford, Que.	1998-09-30	2006-10-31	171.0	62.4	936.2
Encana Corporation	GL-284	Monchy, Sask	2002-09-24	2008-10-31	4 277.5	1 562.4	15 624.0
	GL-285	Kingsgate, BC	2002-09-24	2008-10-31	2 727.0	996.2	9 962.0
ENCO Gas, Ltd.	GL-203	Huntingdon, B.C.	1994-11-01	2008-10-31	601.3	219.5	3 258.0
Encogen Northwest, L.P.	GL-190	Huntingdon, B.C.	1993-11-01	2008-10-31	271.6	99.1	1 441.3
Engage Energy Canada, L.P	GL-282	Emerson, Man.	1998-11-08	2008-11-01	572.0	208.8	2 452.0
	GOL-10-02 <sup>d)</sup>	Iroquois, Ont. & Niagara Falls, Ont.	2002-09-16	2010-09-16	N/S	N/S	N/S
	GOL-11-02 <sup>e)</sup>	Huntingdon & Kingsgate B.C.	2002-09-16	2010-09-16	N/S	N/S	N/S
	GOL-12-02 <sup>f)</sup>	Monchy, Sask. & St. Clair, Ont.	2002-09-16	2010-09-16	N/S	N/S	N/S
	GOL-13-02 <sup>f)</sup>	Emerson, Man	2002-09-16	2010-09-16	N/S	N/S	N/S
	GOL-14-02 <sup>g)</sup>	Cardston, Alta.	2002-09-16	2010-09-16	N/S	N/S	N/S
	GOL-9-93 <sup>a)</sup>	St. Clair, Ont.	1997-01-01	2008-03-31	N/S	N/S	N/S
Enron North America Corp.	GL-258	Iroquois, Ont.	1996-11-01	2006-10-31	57.8	21.1	479.1
	GL-277	Monchy, Sask.	1998-11-01	2008-11-01	1 185.2	432.7	4 327.3
	GL-278	Emerson, Man. and St. Clair, Ont. combined maximum	1998-11-01	2008-11-01	901.0	329.7	3 296.6
			1998-11-01	2008-11-01	901.0	329.7	
	GL-279	Niagara Falls, Ont.	1998-11-01	2008-11-01	256.4	93.6	936.0
GL-293	St. Clair, Ont.	1999-11-01	2009-10-31	566.0	206.8	2 068.0	
Forty Mile Gas Co-op Ltd.	GO-21-98	Monchy, Sask.	1998-05-01	2018-04-30	N/S	N/S	N/S
Husky Energy Marketing Inc.	GL-114	Emerson, Man.	1989-11-01	2006-10-31	566.6	155.1	2 556.6
	GL-292	Niagara Falls, Ont.	2001-04-06	2008-11-01	663.0	242.0	2 421.0
Imperial Oil Resources Ltd./ Boston Gas Company	GL-294	St Stephen, NB	1999-11-01	2007-03-31	1 205.0	440.0	3 262.0
Midland Cogeneration Venture Limited Partnership	GOL-9-96 <sup>h)</sup>	St. Clair, Windsor, Sarnia & Blue Water, Ont.	1996-12-18	2006-12-31	N/S	N/S	N/S
Nexen Inc./ Rock-Tenn Company, Mill	GL-290	Philipsburg, Que.	1998-11-01	2008-10-31	61.2	22.3	223.4
Pawtucket Power Associates Limited Partnership	GL-149	Iroquois, Ont.	1991-11-01	2006-10-31	362.5	132.4	1 986.0

### C3. LICENCES AND LONG-TERM ORDERS TO EXPORT NATURAL GAS AS OF 31 DECEMBER 2005 (CONTINUED)

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>3</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
Petro-Canada Oil and Gas	GL-186	Huntingdon, B.C.	1995-11-01	2011-12-31	409.6	25.0	2 580.9
ProGas Limited	GL-101	Niagara Falls, Ont.	1989-11-01	2009-10-31	1 420.0	517.0	10 340.0
	GL-109	Iroquois & Niagara Falls, Ont.	1991-11-01	2011-10-31	708.2	258.5	5 170.0
	GL-129	Niagara Falls, Ont.	1992-11-01	2006-10-31	2 521.1	920.2	19 015.3
			2006-11-01	2013-10-31	2 039.6	744.4	
	GL-161	Iroquois, Ont.	1992-11-01	2010-10-31	708.2	258.4	4 800.4
			2010-11-01	2011-04-30	708.2	128.2	
	GL-178	Niagara Falls, Ont.	1992-11-01	2007-10-31	339.9	124.1	1 861.1
	GL-270	Emerson, Man.	1997-05-01	2012-10-31	225.0	135.3	2 071.3
	GL-271	Emerson, Man.	1997-05-01	2012-10-31	67.0	24.4	378.3
	GL-272	Iroquois, Ont.	1997-11-01	2007-10-31	458.0	167.2	1 672.0
	GL-286	Emerson, Man.	1998-11-01	2008-10-31	849.6	310.3	620.6
	GL-287	Monchy, Sask.	1998-11-01	2008-10-31	849.6	310.3	620.6
	GL-288	Kingsgate, B.C.	1998-07-01	2007-03-01	222.3	26.7	703.4
GL-295	Emerson, Man.	1999-11-01	2009-10-31	171.4	62.6	626.0	
Progas Limited as agent for RDO Foods Co.	GO-15-01	Not used in 2005	2001-05-05	2008-10-31	30.0	N/S	N/S
Ranger Oil Limited	GL-280	Niagara Falls, Ont.	1997-11-01	2007-10-31	141.6	51.7	517.0
Rochester Gas and Electric Corporation	GOL-12-92 <sup>1)</sup>	Chippawa, Ont.	1993-11-01	2008-10-31	N/S	N/S	N/S
Saranac Power Partners L.P. & Shell Canada Limited	GL-197	Napierville, Que.	1993-11-01	2008-10-31	1 445.0	529.0	7 125.0
Selkirk Cogen Partners, L.P. & Producers Market Ltd.	GL-192	Iroquois, Ont.	1994-11-01	2009-10-31	479.0	176.0	2 712.0
Selkirk Cogen Partners, L.P. & Imperial Oil Resources Ltd.	GL-193	Iroquois, Ont.	1994-11-01	2009-10-31	538.2	196.6	3 031.0
Selkirk Cogen Partners, L.P. & PanCanadian Petroleum Ltd.	GL-194	Iroquois, Ont.	1994-11-01	2009-10-31	538.2	196.6	3 031.0
Sithe/Independence Power Partners, L.P.	GOL-13-92 <sup>1)</sup>	Chippawa, Ont.	1994-08-01	2014-12-31	N/S	N/S	N/S
Talisman Energy Inc.	GL-265	Huntingdon, B.C.	1997-01-01	2016-12-31	74.7	27.3	545.5
	GL-266	Huntingdon, B.C.	1997-01-01	2016-12-31	78.9	28.8	575.9
TransCanada Energy Limited	GL-248	Kingsgate, B.C.	2001-11-01	2011-07-31	841.5	307.1	4 606.9
	GL-249	Kingsgate, B.C.	2001-11-01	2011-07-31	420.7	153.5	2 303.2
	GOL-3-92 <sup>k)</sup>	Emerson, Man.	1992-03-01	2012-02-29	10 000.0	3 650.0	N/S
Union Gas Limited	GOL-15-93 <sup>1)</sup>	Sprague, Man.	1998-02-26	2018-11-30	N/S	N/S	N/S

### C3. LICENCES AND LONG-TERM ORDERS TO EXPORT NATURAL GAS AS OF 31 DECEMBER 2005 (CONTINUED)

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>3</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
	GOL-5-02 <sup>m)</sup>	St. Clair, Windsor, Ont. Monchy Sask. & Emerson Man.	2002-06-25	2007-06-24	N/S	N/S	N/S
	GOL-6-02 <sup>n)</sup>	St. Clair, Windsor, Sarnia & Blue Water, Ont. & Monchy Sask.	2002-06-25	2007-06-24	N/S	N/S	N/S
Vermont Gas Systems, Inc.	GL-289	Philipsburg, Que.	1998-11-01	2008-10-31	226.6	82.7	827.0
Westcoast Gas Services Inc	GL-282	Emerson, Man.	2001-11-01	2008-10-31	715.0	261.0	2 452.0

- a) This order authorizes an export of natural gas for subsequent import near St. Clair, Ont.
- b) This order authorizes an export of natural gas for subsequent import near Courtright, Ont.
- c) This order authorizes the re-export of natural gas that was imported near Loomis and Willow Creek, Sask.
- d) This order authorizes the re-export of natural gas that was imported near St. Clair and Windsor, Ont.
- e) This order authorizes an export of natural gas for subsequent import near Huntingdon, B.C.
- f) This order authorizes an export of natural gas for subsequent import near St. Clair and Windsor, Ont.
- g) This order authorizes an export of natural gas for subsequent import near Willow Creek, Sask.
- h) This order authorizes the re-export of natural gas that was imported near St. Clair, Windsor, Sarnia, and Blue Water, Ont.
- i) This order authorizes the re-export of natural gas that was imported near Sarnia, Ont.
- j) This order authorizes the re-export of natural gas that was imported near Windsor and/or Sarnia, Ont.
- k) This order authorizes an export of natural gas for subsequent import near St. Clair and Sarnia, Ont.
- l) This order authorizes an export of natural gas for subsequent import near Rainy River, Ont.
- m) This order authorizes an export of natural gas for subsequent import near St. Clair, Windsor, Sarnia, S.S. Marie and Blue Water, Ont.
- n) This order authorizes the re-export of natural gas that was imported near St. Clair, Windsor, Sarnia and Blue Water, Ont.

N/S Not Specified



#### C4. LICENCES AND LONG-TERM ORDERS TO IMPORT NATURAL GAS AS OF 31 DECEMBER 2005

Importer	Licence or Order Number	Point of Import	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>3</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
CoEnergy Trading Company	GOL-5-98 <sup>a)</sup>	St. Clair, Ont.	1998-11-01	2008-10-31	N/S	N/S	N/S
Coral Energy Canada Inc.	GOL-6-03 <sup>b)</sup>	Courtright, Ont.	2003-12-04	2013-12-04	N/S	N/S	N/S
Devon Louisiana Corp (Previously: Ocean Energy, Inc.)	GOL-12-95 <sup>c)</sup>	Loomis & Willow Creek, Sask.	1995-09-22	2008-12-31	N/S	N/S	N/S
Engage Energy Canada, L.P.	GOL-10-02 <sup>d)</sup>	Windsor & St. Clair, Ont.	2002-09-16	2010-09-16	N/S	N/S	N/S
	GOL-11-02 <sup>e)</sup>	Huntingdon, B.C.	2002-09-16	2010-09-16	N/S	N/S	N/S
	GOL-12-02 <sup>f)</sup>	Windsor & St. Clair, Ont.	2002-09-16	2010-09-16	N/S	N/S	N/S
	GOL-13-02 <sup>e)</sup>	Windsor & St. Clair, Ont.	2002-09-16	2010-09-16	N/S	N/S	N/S
	GOL-14-02 <sup>a)</sup>	Willow Creek, Sask.	2002-09-16	2010-09-16	N/S	N/S	N/S
	GOL-9-93 <sup>b)</sup>	St. Clair, Ont.	1997-01-01	2008-03-31	N/S	N/S	N/S
Midland Cogeneration Venture Limited Partnership	GOL-9-96 <sup>i)</sup>	St. Clair, Windsor, Sarnia & Blue Water, Ont.	1996-12-18	2006-12-31	N/S	N/S	N/S
Rochester Gas and Electric Corporation	GOL-12-92 <sup>j)</sup>	Sarnia, Ont.	1993-11-01	2008-10-31	N/S	N/S	N/S
Sithe/Independence Power Partners, L.P.	GOL-13-92 <sup>k)</sup>	Sarnia & Windsor, Ont.	1993-02-01	2014-12-31	N/S	N/S	N/S
TransCanada Energy Limited	GOL-3-92 <sup>a)</sup>	Sarnia & St. Clair, Ont.	1992-03-01	2012-02-29	10 000.0	3 650.0	N/S
Union Gas Limited	GOL-15-93 <sup>l)</sup>	Rainy River, Ont.	1998-02-26	2018-11-30	N/S	N/S	N/S
	GOL-5-02 <sup>m)</sup>	St. Clair, Windsor, Sarnia, Sault Ste. Marie & Blue Water, Ont.	2002-06-25	2007-06-24	N/S	N/S	N/S
	GOL-6-02 <sup>n)</sup>	Windsor, Sarnia, St. Clair & Blue Water, Ont.	2002-06-25	2007-06-24	N/S	N/S	N/S

- a) This order authorizes the re-import of natural gas that was exported near Emerson, Man.
- b) This order authorizes the re-import of natural gas that was exported near Elmore, Sask.
- c) This order authorizes an import of natural gas for subsequent export near Emerson, Man. and/or Willow Creek, Sask.
- d) This order authorizes an import of natural gas for subsequent export near Iroquois and/or Niagara Falls, Ont.
- e) This order authorizes the re-import of natural gas that was exported near Kingsgate or Huntingdon B.C.
- f) This order authorizes the re-import of natural gas that was exported near Monchy, Sask. and/or St. Clair, Ont.
- g) This order authorizes the re-import of natural gas that was exported near Cardston, Alta.
- h) This order authorizes the re-import of natural gas that was exported near St. Clair, Ont.
- i) This order authorizes an import of natural gas for subsequent export near St. Clair, Windsor, Sarnia, and/or Blue Water, Ont.
- j) This order authorizes an import of natural gas for subsequent export near Chippawa, Ont.
- k) This order authorizes the re-import of natural gas that was exported near Chippawa, Ont.
- l) This order authorizes the re-import of natural gas that was exported near Sprague, Man.
- m) This order authorizes the re-import of natural gas that was exported near St. Clair, Windsor, Ont., Monchy, Sask. and/or Emerson, Man.
- n) This order authorizes an import of natural gas for subsequent export near Monchy, Sask. and/or St. Clair, Windsor, Sarnia, and/or Blue Water, Ont.

N/S Not Specified

**C5. NATURAL GAS EXPORTS BY EXPORT POINT – 2001 to 2005**  
*(million cubic metres)*

<b>Export Point</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005<sup>a)</sup></b>
Huntingdon	9 171	9 490	8 603	7 376	7 818
Kingsgate	22 231	19 729	15 902	19 102	17 582
Monchy	21 151	21 747	21 609	21 523	20 127
Elmore	14 998	16 078	16 133	16 010	16 566
Emerson	11 081	11 236	11 296	11 843	13 159
Niagara Falls	9 295	9 273	8 036	8 657	9 732
Iroquois	9 069	9 139	9 099	9 241	10 596
St. Stephen	4 451	4 037	3 688	3 363	3 828
Other	4 845	6 367	5 193	5 072	6 283
<b>Total</b>	<b>106 291</b>	<b>107 096</b>	<b>99 559</b>	<b>102 185</b>	<b>105 692</b>

a) Estimate

**C6. TOTAL NET EXPORTS OF PROPANE AND BUTANES – 2004 AND 2005**  
(cubic metres)

Exporter	Propane		Butanes	
	2004 Actual	2005 Preliminary	2004 Actual	2005 Preliminary
Aux Sable Liquid Products LP	–	2 301	–	–
BP Canada Energy Company	3 305 692	2 898 727	774 854	715 918
Burnwell Gas of Canada, Ltd.	145 109	121 081	N/A	N/A
Cal-Gas Inc.	N/A	4 295	N/A	N/A
CHS, Inc.	73 209	50 959	N/A	N/A
Canada Imperial Oil Limited	300 723	232 200	9 384	20 607
Canadian Enterprise Gas Products Ltd.	253 444	164 582	131 195	93 657
Centennial Gas Liquids, L.L.C.	17 032	2 884	41 356	21 529
ConocoPhillips Canada Limited	275 474	105 312	256 888	144 814
Duke Energy Empress L.P.	–	92 020	–	101 334
Dynegy Midstream Services, L.P.	116 898	89 769	10 597	49 770
Eastwest Energy Inc.	28 515	9 794	–	–
Elbow River Marketing Limited Partnership	–	21 851	–	68 449
Elbow River Resources Ltd.	78 098	55 531	145 611	45 910
enerkon Resources Canada	218	–	–	–
Factor Energy (U.S.) Inc.	26 239	40 142	–	–
Factor Gas Liquids Inc.	56 778	25 187	7 999	2 365
Ferrell North America	23 835	60 511	N/A	N/A
Foster Energy	55 865	3 976	–	–
Gas Supply Resources, Inc.	573 467	911 741	–	–
Inergy Canada Company	13 181	24 558	–	–
Inergy Propane, LLC	60 778	15 050	N/A	N/A
Irving Oil Limited	82 684	78 548	–	–
Keyera Energy Ltd.	315 816	282 650	–	–
Kinder Morgan Energy Partners L.P.	24 563	–	–	–
Kinetic Resources (LPG)	687 489	585 895	201 293	188 279
Lakes Gas Co.	20 785	36 764	N/A	N/A
Link Petroleum Services Ltd.	14 892	18 978	–	–
MP Energy	177 712	142 575	–	–
MarkWest Hydrocarbon, Inc.	8 058	18 772	–	–
NGL Supply Co. Ltd.	455 754	339 330	117 009	68 786
NGL Supply, Inc.	76 168	74 963	N/A	N/A
Northern Petro NGL Marketing	1 429	–	–	–
Petro Canada (U.S.A) Inc.	130 916	34 079	3 736	–
Petrogas Marketing Ltd.	133 182	60 006	17 951	19 028
Pétromont, société en commandite	5 393	4 475	–	–
Plains Marketing Canada L.P.	367 300	271 289	15 707	32 288
Propane Resources	3 968	2 381	–	–
Provident Energy Ltd.	2 414	–	N/A	N/A
Quadra Energy Trading Ltd.	68 665	5 192	10 633	7 235
SemStream, L.P.	523 435	434 033	N/A	N/A
Shell Canada Limited	167 482	61 562	91 545	39 434
Stittco Energy Limited	13 235	9 172	–	–
Superior Gas Liquids	–	50 192	–	–
Tidal Energy	43 683	42 824	–	–
Triangle Three Service Ltd.	341	277	N/A	N/A
Western Gas Liquids Canada	14 404	5 372	4 229	2 285
Western Petroleum Company	41 327	26 164	N/A	N/A
<b>Total</b>	<b>8 785 650</b>	<b>7 517 964</b>	<b>1 839 987</b>	<b>1 621 688</b>

N/A Not Applicable

## D1. FINANCIAL INFORMATION – GROUP 1 OIL PIPELINE COMPANIES WITH MULTI-YEAR INCENTIVE TOLL AGREEMENTS

2005	Enbridge Pipelines Inc.	Terassen Pipelines (Trans Mountain) Inc.	Trans-Northern Pipelines Inc.
<b>Operations (\$000)</b>			
Revenues	677 469.0	–	57 145.0
<b>Expenses per m<sup>3</sup></b>			
Depreciation	105 704.0	–	6 563.0
Fuel and Power	69 472.0	–	12 215.0
Operating and Maintenance	181 555.0	–	22 918.0
Other (including taxes)	–	–	5 529.0
<b>Net Income</b>	<b>170 098.0</b>	<b>–</b>	<b>9 920.0</b>
<b>Throughput Statistics</b>			
Throughput (m <sup>3</sup> /day)	307 750.0	–	34 295.0
Throughput-Km (000 m <sup>3</sup> *km)	90 500 151.0	–	2 851 281.0
<b>Performance Statistics</b>			
Average Revenue (\$/m <sup>3</sup> )	6 030.0	–	4 565.0
Revenue per m <sup>3</sup> - km (\$)	0.007	–	0.0200
Expenses per m <sup>3</sup> - km (\$)	0.006	–	0.0080
Net Income over/under Earnings Threshold (\$000)	10 890.0	–	(2 022)
Negotiated Incentives (\$000)	17 227.0	–	–
Other Adjustments (\$000)	172 250.0	–	30 001.0

**Notes:**

**Enbridge Pipelines:** "Other (including taxes)" includes interest expense, investment and other income, and income taxes. Net income after shipper sharing. "Expenses per m<sup>3</sup>" includes sum of depreciation, fuel and power, operating and maintenance, and other income and expense, divided by Throughput-Km statistics. "Negotiated incentives" include preliminary cost performance sharing and power savings. "Other adjustments" include sum of current year tolling deferral accounts.

**Terassen Pipelines (Trans Mountain):** The company indicated that it is not able to comply with the Board's request for the indicated information. Among other things, it considers some of the information to be confidential.

**Trans-Northern:** Some data is based on preliminary actuals and estimates. "Operating and Maintenance" is the sum of maintenance, transportation, administration, and other (e.g., all expenses except depreciation and power). "Negotiated Incentives" are the sum of shipper's share of all the incentives. Positive numbers are subtracted from following year's revenue requirement and negative numbers are added to revenue requirement.

## D2. FINANCIAL INFORMATION – GROUP 1 OIL PIPELINE COMPANIES WITH TOLLS BASED ON COST OF SERVICE

2005	Cochin Pipe Lines Ltd.	Enbridge Pipelines (NW) Inc.
<b>Revenue Requirement (\$000)</b>		
Cost of Debt	7 917	1 437
Return on Equity	2 239	7 225
Preferred Dividends	–	–
Depreciation	–	8 463
Fuel and Power	2 192	957
Wages and Benefits	2 987	2 345
Other Operating and Maintenance	12 033	9 131
Transmission by Others	–	–
Other (costs)	–	103
Income Tax	342	4 363
Other Taxes	2 019	–
<b>Total</b>	<b>29 728</b>	<b>34 024</b>
<b>Capitalization of Rate Base (\$000) at 31 December 2005</b>		
Debt	–	44 712
Preferred Equity	–	–
Deferred Taxes	–	18 223
Common Equity	115 399	76 920
Other (capital)	–	–
<b>Total</b>	<b>115 399</b>	<b>139 855</b>
<b>Return on Equity (%)</b>		
Approved	(see note)	9.46
Actual	1.9	9.46
<b>Utility Rate Base (\$000) at 31 December 2004</b>		
Net Plant in Service	112 366	129 871
Working Capital	3 032	1 036
Other (rate base)	–	4 228
<b>Total</b>	<b>115 399</b>	<b>135 135</b>
<b>Annual Throughput (10<sup>3</sup>m<sup>3</sup>)</b>	<b>3 116</b>	<b>1 309</b>

### Notes:

**Cochin Pipelines:** Is a 100% equity financed joint venture that has been approved on a semi-depreciated rate base ("SDRB") methodology. The SDRB methodology provides a formula return on Equity (varies between 5.75%–8.25% of SDRB based a throughput formula) and Deemed Debt (based on 75% of [average residual plant in service + average working capital] x 11%).

**Enbridge Pipelines (NW):** "Other (costs)" includes other revenue and amortization of shipper underpayment. "Other Taxes" refers to large corporation tax. Total capitalization includes 2005 average CWIP balance in rate base allocation. "Other (rate base)" includes equity portion of 1985 shipper underpayment, inventory and unamortized debt redemption and issuance costs.

### D3. FINANCIAL INFORMATION - GROUP 1 GAS PIPELINE COMPANIES

2005	Alliance Pipeline Ltd.	Foothills Pipe Lines Ltd.	Maritimes & Northeast Pipeline Management Ltd.	TransCanada Pipelines Ltd. (BC System)	TransCanada Pipelines Ltd. (Mainline)	Trans Quebec & Maritimes Inc.	Westcoast Energy Inc.
<b>Revenue Requirement (\$000)</b>							
Cost of Debt	116 975	23 125	32 560	7 322	428 019	21 576	—
Return on Equity	78 748	19 395	29 062	6 135	265 855	14 033	—
Preferred Dividends	—	—	—	—	—	—	—
Depreciation	113 215	43 843	39 451	12 573	404 572	22 568	—
Fuel & Power	—	8 126	—	2 167	82 808	2 207	—
Wages & Benefits	—	5 501	3 415	4 359	94 122	558	—
Other Operating and Maintenance	51 898	21 800	5 898	8 414	70 132	11 044	—
Special Charges	—	2 269	—	—	—	—	—
Transmission by Others	901	—	—	22 106	316 875	—	—
NEB Cost Recovery	2 251	3 343	552	3 428	10 509	618	—
Other (costs)	(18 960)	1 014	856	—	(17 542)	—	—
Income Tax	31 894	2 050	18 438	280	198 737	10 547	—
Other Taxes	14 414	12 826	18 639	3 893	118 002	4 320	—
<b>Total</b>	<b>391 336</b>	<b>143 292</b>	<b>148 871</b>	<b>70 677</b>	<b>1 972 089</b>	<b>87 471</b>	<b>643 100</b>
<b>Capitalization of Rate Base (\$000) at 31 December 2005</b>							
Debt	1 598 677	468 063	591 295	146 748	4 906 876	324 404	1 674
Unfunded Debt	—	—	—	—	—	—	81
Preferred Equity	—	—	—	—	—	—	—
Common Equity	—	200 599	226 062	62 892	2 760 119	139 030	957
Partnership Capital	685 147	1 606	—	—	—	—	—
Other (Capital)	—	—	—	—	—	—	—
<b>Total</b>	<b>2 283 824</b>	<b>670 268</b>	<b>817 357</b>	<b>209 640</b>	<b>7 666 998</b>	<b>463 434</b>	<b>2 713</b>
<b>Return on Equity (%)</b>							
Approved	11.25	9.46	13.00	9.46	9.46	9.46	N/A
Actual	N/A	9.46	13.12	9.46	9.67	9.92	11.92

**Notes:**

**Alliance Pipeline:** Data includes preliminary estimates. No preferred shares issued or outstanding. "Other Operating and Maintenance" includes power and fuel and wages and benefits. Partnership capital is used in place of common equity. "Other (costs)" includes asset usage charge to Alliance Pipeline LP, over recovery, and Taylor Aitken Creek surcharge revenue. "Income Tax" includes income and large corporation tax.

**Foothills Pipe Lines:** "Special Charges" as per Order IG-2-2003. "Other (costs)" includes IROR Amortization. "Other Capital" includes IROR Adjustment.

**Maritimes & Northeast Pipeline:** Data includes preliminary estimates. "Return on equity" includes Investment Income and Allowance for Funds Used During Construction

**TransCanada Pipelines Ltd. (Mainline):** "Other (costs)" includes Storage operating, pipeline integrity and insurance deductible, debt redemption, inventory management program, regulatory proceeding, regulatory amortization, compressor repair and overhaul costs, and gain on storage gas.

**Westcoast Energy:** Tolls set by formula as per negotiated settlements where breakdown of revenue requirement is not relevant. Data for Zones 1 to 4.

N/A Not Applicable

## E1. CERTIFICATES AND PERMITS ISSUED DURING 2005 FOR INTERNATIONAL POWER LINES

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No certificates or permits were issued during 2005 relating to international power lines.

## E2. AMENDING ORDERS ISSUED DURING 2005 FOR INTERNATIONAL POWER LINES

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No amending orders were issued during 2005 relating to international power lines.

## E3. REVOKING ORDERS ISSUED DURING 2005 FOR INTERNATIONAL POWER LINES

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No revoking orders were issued during 2005 relating to international power lines.

## E4. LICENCES ISSUED DURING 2005 FOR THE EXPORT OF ELECTRICITY

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No licences were issued during 2005 relating to the export of electricity.

## E5. PERMITS AND ORDERS ISSUED DURING 2005 FOR THE EXPORT OF ELECTRICITY

### A) PERMITS ISSUED

Applicant	Permit No.	Class	Kilowatts	Annual Megawatt Hours	Term		Issued
					From	To	
Constellation NewEnergy, Inc.	EPE-264	Firm	600 000	5 256 000	2005-04-29	2015-04-28	2005-04-26
	EPE-265	Interruptible		1 744 000	2005-04-29	2015-04-28	2005-04-26
Calpine Energy Services Canada Ltd.	EPE-266	Firm	250 000	2 160 000	2005-05-27	2015-05-26	2005-05-20
	EPE-267	Interruptible		2 160 000	2005-05-27	2015-05-26	2005-05-20
Manitoba Hydro	EPE-268	Firm	3 250 000	25 434 000	2005-11-01	2010-10-31	2005-10-27
	EPE-269	Interruptible		25 434 000	2005-11-01	2010-10-31	2005-10-27
TransCanada Energy Ltd.	EPE-270	Firm	350 000	3 000 000	2005-11-16	2015-11-15	2005-06-17
	EPE-271	Interruptible		3 000 000	2005-11-16	2015-11-15	2005-06-17
Manitoba Hydro-Electric Board	EPE-273	Firm	20	60	2005-08-01	2010-07-31	2005-06-06
Lighthouse Energy Trading Company	EPE-272	Firm	300 000	2 628 000	2005-07-15	2015-07-14	2005-07-15
	EPE-274	Interruptible		1 752 000	2005-07-15	2015-07-14	2005-07-15
Saracen Merchant Energy, LP	EPE-275	Firm	400 000	1 200 000	2005-08-12	2015-08-11	2005-08-12
	EPE-276	Interruptible		1 500 000	2005-08-12	2015-08-11	2005-08-12
ENMAX Energy Marketing Inc.	EPE-277	Firm	400 000	3 504 000	2006-01-01	2015-12-31	2005-10-07
	EPE-278	Interruptible		8 760 000	2006-01-01	2015-12-31	2005-10-07
Silverhill Ltd.	EPE-279	Firm	500 000	4 380 000	2005-12-23	2015-12-22	2005-12-23
	EPE-280	Interruptible		4 380 000	2005-12-23	2015-12-22	2005-12-23

**B) AMENDING ORDERS ISSUED DURING 2005 RELATING TO EXPORT LICENCES AND EXPORT PERMITS**

<b>Applicant</b>	<b>Order No.</b>	<b>Issued</b>	<b>Comments</b>
Ontario Power Generation Inc.	AO-81-EPE-21	2005-03-24	Deletion of a transaction agreement
	AO-82-EPE-21	2005-05-26	Addition of a transaction agreement
	AO-83-EPE-21	2005-10-19	Deletion of a transaction agreement
Suez Energy International on behalf of Suez Energy Marketing NA, Inc.	AO-3-EPE-86	2005-05-25	Change of name and transfer from Tractebel Energy Marketing, Inc. to SUEZ Energy Marketing NA, Inc.
	AO-3-EPE-87	2005-05-25	

**C) REVOKING ORDERS ISSUED DURING 2005 RELATING TO EXPORT LICENCES AND EXPORT PERMITS**

<b>Applicant</b>	<b>Order No.</b>	<b>Issued</b>	<b>Comments</b>
Reliant Energy, Inc.	RO-EPE-201	2005-04-05	Revoked at the request of the company
	RO-EPE-202	2005-04-05	
USGen New England, Inc.	RO-EPE-230	2005-05-11	Revoked at the request of the company
	RO-EPE-231	2005-05-11	
Engage Energy US, L.P.	RO-EPE-151	2005-05-24	Revoked at the request of the company
	RO-EPE-152	2005-05-24	
El Paso Merchant Energy Group	RO-EPE-103	2005-06-08	Revoked at the request of El Paso Merchant Energy Group on behalf of Sonat Power Marketing L.P. and Sonat Power Marketing Inc.
	RO-EPE-104	2005-06-08	
Duke Energy Marketing Canada Ltd.	RO-EPE-135	2005-10-26	Revoked at the request of the company
	RO-EPE-136	2005-10-26	
Ontario Power Generation Inc.	RO-AO-5-EPE-21	2005-12-16	Deletion of a transaction agreement
	RO-AO-7-EPE-21	2005-05-11	Deletion of a transaction agreement
	RO-AO-9-EPE-21	2005-11-22	Deletion of a transaction agreement
	RO-AO-14-EPE-21	2005-10-19	Deletion of a transaction agreement
	RO-AO-17-EPE-21	2005-11-22	Deletion of two transaction agreements
	RO-AO-20-EPE-21	2005-11-22	Deletion of a transaction agreement
	RO-AO-32-EPE-21	2005-05-11	Deletion of a transaction agreement
	RO-AO-45-EPE-21	2005-12-16	Deletion of a transaction agreement
RO-AO-57-EPE-21	2005-12-16	Deletion of a transaction agreement	



**E6. ELECTRICITY EXPORTS 2005**  
(megawatt hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange <sup>a)</sup>	Firm	Interruptible
<b>New Brunswick</b>								
Brascan Energy Marketing Inc.	EPE-112	8 760 000	—	64 699	—	—	7 342 026	—
Emera Energy	EPE-216	—	4 800 000 <sup>b)</sup>	—	—	6 864	—	—
	EPE-217	4 800 000	—	615 126	—	—	53 199 218	—
Fraser Paper Inc. (Canada)	EPE-225	400 000	—	341 985	—	—	24 765 947	—
New Brunswick Power Corporation	EPE-90	6 482 000 <sup>c)</sup>	—	179 879	—	—	14 767 138	—
	EPE-91	—	6 482 000 <sup>d)</sup>	—	1 205 034	—	—	102 058 290
	EPE-148	2 000 000	—	417 365	—	—	29 804 183	—
WPS Canada Generation Inc.	EL-177	200 000	—	130 785	—	—	4 020 083	—
<b>Total New Brunswick</b>				<b>1 749 839</b>	<b>1 205 034</b>	<b>6 864</b>	<b>133 898 595</b>	<b>102 058 290</b>
<b>Nova Scotia</b>								
Brascan Energy Marketing Inc.	EPE-112	8 760 000	—	143	—	—	38 754	—
Nova Scotia Power Inc.	EPE-122	—	1 200 000 <sup>d)</sup>	—	104 282	—	—	8 366 513
<b>Total Nova Scotia</b>				<b>143</b>	<b>104 282</b>		<b>38 754</b>	<b>8 366 513</b>
<b>Québec</b>								
Brascan Energy Marketing Inc.	EPE-112	8 760 000	—	387 888	—	—	33 749 853	—
Hydro-Québec	EL-180	1 402 000	—	1 030 256	—	—	87 512 471	—
	EL-181	400 000	—	178 760	—	—	14 620 994	—
	EL-182	406 000	—	158 322	—	—	13 042 961	—
	EL-183	540 000	—	280 469	—	—	23 760 260	—
	EL-184	406 000	—	181 875	—	—	15 878 082	—
	EPE-20	27 331	—	1 404	—	—	106 649	—
	EPE-64	—	30 000 000 <sup>d)</sup>	—	7 556 080	—	—	749 082 038
	EPE-65	20 000 000 <sup>e)</sup>	—	—	—	—	—	—
Marketing D'Énergie HQ Inc.	EPE-129	—	30 000 000 <sup>b)</sup>	—	768 884	—	—	44 451 277
Powerex Corp.	EPE-116	—	40 000 000 <sup>d)</sup>	—	21 189	—	—	1 115 480
<b>Total Québec</b>				<b>2 218 974</b>	<b>8 346 153</b>		<b>188 671 270</b>	<b>794 648 795</b>
<b>Ontario</b>								
Allete, Inc.	EPE-261	600 000	—	24 279	—	—	1 458 617	—
Brascan Energy Marketing Inc.	EPE-112	8 760 000	—	1 003 970	—	—	81 568 054	—
The Canadian Transit Company	EPE-29	50	—	23	—	—	—	—
Cargill-Alliant Energy Canada, Inc.	EPE-204	8 760 000	—	60 282	—	—	4 596 821	—
The Cincinnati Gas & Electric	EPE-257	8 760 000 <sup>b)</sup>	—	48 807	—	—	4 580 359	—
Conectiv Energy Supply Inc.	EPE-212	—	5 000 000	—	204 459	—	—	13 264 795

**E6. ELECTRICITY EXPORTS – 2005 (CONTINUED)**  
(megawatt hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange <sup>o)</sup>	Firm	Interruptible
Constellation Energy Commodities Group, Inc.	EPE-138	–	1 752 000	–	270 914	–	–	17 577 651
Constellation NewEnergy, Inc.	EPE-264	5 256 000	–	613	–	–	59 551	–
Coral Energy Canada Inc.	EPE-174	5 000 000	–	318 238	–	–	20 680 767	–
The Detroit and Windsor Subway Company	EPE-26	5 000	–	1 337	–	–	–	–
Direct Commodities Trading Inc.	EPE-240	–	600 000	–	77 850	–	–	5 909 021
Direct Energy Marketing Inc.	EPE-200	8 760 000	–	69 375	–	–	4 869 348	–
DTE Energy Trading, Inc.	EPE-206	10 000 000	–	1 127 594	–	–	56 350 766	–
EPCOR Merchant and Capital Inc.	EPE-187	6 588 000	–	344 067	–	–	18 658 281	–
Hydro One Networks Inc.	EPE-25	200	–	23	–	–	1 168	–
Independent Electricity Market Operator	EPE-22	–	10 000 000	–	–	-2 646 569	–	–
MAG Energy Solutions Inc.	EPE-255	–	4 380 000 <sup>o)</sup>	–	5 970	–	–	467 888
Merrill-Lynch Commodities Canada, ULC	EPE-227	1 200 000	–	200	–	–	15 999	–
Morgan Stanley Capital Group Inc.	EPE-181	1 557 000	–	488	–	–	28 633	–
Northern States Power Company	EPE-235	800 000	–	88 775	–	–	4 890 832	–
Ontario Power Generation Inc. (OPGI)	EPE-24	15 000	–	207	–	–	414	–
OPGI and Ontario Hydro Interconnected Markets Inc.	EPE-21	–	25 000 000	–	2 586 190	238 516	–	181 690 909
Powerex Corp	EPE-116	–	40 000 000 <sup>o)</sup>	–	537 510	–	–	39 666 414
Rainbow Energy Marketing Corporation	EPE-263	–	4 380 000	–	1 087	–	–	59 206
Saracen Merchant Energy, LP	EPE-276	–	1 500 000	–	77 025	–	–	5 855 352
Sempra Energy Trading Corp.	EPE-157	8 299 999	–	47 052	–	–	3 732 037	–
SESCO Enterprises Canada Ltd.	EPE-249	600 000	–	38 231	–	–	2 795 789	–
Split Rock Energy LLC	EPE-221	600 000	–	364 906	–	–	22 382 349	–
TransAlta Energy Marketing Corp. and TransAlta Energy Marketing (U.S.) Inc.	EPE-168	8 760 000	–	1 275 742	–	–	84 661 786	–
WPS Energy Inc.	EPE-250	–	1 752 000	–	6 336	–	–	567 029
<b>Total Ontario</b>				<b>4 814 209</b>	<b>3 767 341</b>	<b>-2 408 053</b>	<b>311 331 571</b>	<b>265 058 265</b>

**E6. ELECTRICITY EXPORTS – 2005 (CONTINUED)**  
(megawatt hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange <sup>o)</sup>	Firm	Interruptible
<b>Manitoba</b>								
Manitoba Hydro	EL-170*	3 405 000	–	909 872	–	–	44 554 088	–
	EPE-33	883 000	–	42 018	–	–	1 657 883	–
	EPE-34	663 000	–	267 012	–	–	10 323 392	–
	EPE-35	663 000	–	131 974	–	–	7 794 758	–
	EPE-45*	16 650 000 <sup>o)</sup>	–	131 433	–	–	9 578 045	–
	EPE-46*	–	16 650 000 <sup>o)</sup>	–	6 926 549	36 229	–	324 671 685
	EPE-68*	438 000	–	57 866	–	–	2 152 788	–
	EPE-72*	20	–	–	–	–	–	–
	EPE-144	438 000 <sup>o)</sup>	–	200 958	–	–	16 417 580	–
	EPE-155	526 000 <sup>m)</sup>	–	247 198	–	–	14 252 434	–
	EPE-207	878 000	–	413 428	–	–	27 314 603	–
	EPE-224	2 940 000 <sup>m)</sup>	–	1 364 982	–	–	79 803 855	–
	EPE-259	26 352	–	6 389	–	–	373 887	–
	EPE-268	25 434 000	–	35 166	–	–	2 385 701	–
	EPE-269	–	25 434 000	–	1 363 853	5 657	–	83 174 049
	EPE-273	60	–	13	–	–	1 287	–
<b>Total Manitoba</b>				<b>3 808 309</b>	<b>8 290 402</b>	<b>41 886</b>	<b>216 610 301</b>	<b>407 845 734</b>
<b>Saskatchewan</b>								
NorthPoint Energy Solutions Inc.	EPE-88	–	7 008 000 <sup>o)</sup>	–	691 397	–	–	40 643 518
<b>Total Saskatchewan</b>					<b>691 397</b>			<b>40 643 518</b>
<b>Alberta</b>								
ATCO Power Canada and Alberta Power (2000) Ltd.	EPE-93	–	10 600 000 <sup>o)</sup>	–	12 468	–	–	605 285
Cargill-Alliant Energy Canada, Inc.	EPE-204	8 760 000	–	2 929	–	–	120 006	–
Enmax Energy Marketing Inc.	EPE-169*	–	8 760 000	–	18 985	–	–	1 037 452
EPCOR Merchant and Capital Inc.	EPE-186	–	10 541 000	–	22 540	–	–	1 182 249
TransAlta Energy Marketing Corp. and TransAlta Energy Marketing (U.S.) Inc.	EPE-168	8 760 000	–	10 992	–	–	615 247	–
TransCanada Energy Ltd.	EPE-78*	–	2 000 000	–	17 732	–	–	925 585
	EPE-271	–	3 000 000	–	40	–	–	3 165
<b>Total Alberta</b>				<b>13 921</b>	<b>71 765</b>		<b>735 253</b>	<b>3 753 736</b>

**E6. ELECTRICITY EXPORTS – 2005 (CONTINUED)**  
(megawatt hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange <sup>o)</sup>	Firm	Interruptible
<b>British Columbia</b>								
British Columbia Hydro and Power Authority	EPE-105	1 410	–	1 303	–	–	93 447	–
	EPE-127	– <sup>(t)</sup>	–	–	–	-4 994 435	–	–
	EPE-192	–	– <sup>(t)</sup>	–	–	366 741	–	–
	Treaty <sup>3)</sup>	–	–	–	–	155 982	–	–
FortisBC	EPE-115	5 000 000	–	27 263	–	–	832 907	–
Powerex Corp	EPE-118	–	27 000 000 <sup>1)</sup>	–	7 371 864	–	–	637 231 598
Teck Cominco Metals Ltd.	EPE-244	3 500 000	–	448 013	–	–	37 590 458	–
<b>Total British Columbia</b>				<b>476 579</b>	<b>7 371 864</b>	<b>-4 471 712</b>	<b>38 516 812</b>	<b>637 231 598</b>
<b>Other <sup>2)</sup></b>								
Abitibi-Consolidated Inc.	EPE-75	–	175 000	–	–	–	–	–
Advantage Energy, Inc.	EPE-222	–	900 000 <sup>1)</sup>	–	–	–	–	–
	EPE-223	600 000	–	–	–	–	–	–
Allete, Inc.	EPE-260	–	600 000	–	–	–	–	–
Aquila Networks Canada (British Columbia) Ltd.	EPE-13	50	–	–	–	–	–	–
	EPE-114	–	5 000 000	–	–	–	–	–
ATCO Power Canada and Alberta Power (2000) Ltd.	EPE-94	10 600 000 <sup>1)</sup>	–	–	–	–	–	–
Avista Energy, Inc.	EPE-236	–	2 500	–	–	–	–	–
	EPE-237	47 500	–	–	–	–	–	–
Black Oak Capital, LLC	EPE-251	–	4 380 000 <sup>1)</sup>	–	–	–	–	–
	EPE-252	4 380 000 <sup>1)</sup>	–	–	–	–	–	–
Bonneville Power Administration	EPE-140	–	– <sup>(w)</sup>	–	–	–	–	–
	EPE-141	– <sup>(w)</sup>	–	–	–	–	–	–
British Columbia Hydro and Power Authority	EPE-126	–	– <sup>(t)</sup>	–	–	–	–	–
	EPE-193	– <sup>(t)</sup>	–	–	–	–	–	–
BP Canada Energy Company	EPE-178	–	5 000 000 <sup>1)</sup>	–	–	–	–	–
	EPE-179	5 000 000	–	–	–	–	–	–
Brascan Energy Marketing Inc.	EPE-111	–	8 760 000 <sup>1)</sup>	–	–	–	–	–
Calpine Energy Services Canada Inc.	EPE-266	2 160 000 <sup>1)</sup>	–	–	–	–	–	–
	EPE-267	–	2 160 000 <sup>1)</sup>	–	–	–	–	–
Candela Energy Corporation	EPE-165	–	8 760 000 <sup>1)</sup>	–	–	–	–	–
	EPE-166	8 760 000	–	–	–	–	–	–
Cargill-Alliant Energy Canada, Inc.	EPE-203	–	10 000 000 <sup>1)</sup>	–	–	–	–	–
Chandler Energy Inc.	EPE-100	–	500 000 <sup>1)</sup>	–	–	–	–	–
	EPE-101	500 000 <sup>1)</sup>	–	–	–	–	–	–

**E6. ELECTRICITY EXPORTS – 2005 (CONTINUED)**  
(megawatt hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange <sup>o)</sup>	Firm	Interruptible
The Cincinnati Gas & Electric Company	EPE-258	–	8 760 000 <sup>h)</sup>	–	–	–	–	–
Citadel Financial Products S.a.r.l.	EPE-253	–	867 000	–	–	–	–	–
	EPE-254	876 000	–	–	–	–	–	–
CMS Marketing, Services and Trading	EPE-161	–	6 310 000 <sup>aa)</sup>	–	–	–	–	–
	EPE-162	1 752 000	–	–	–	–	–	–
Columbia Power Corporation	EPE-158	–	750 000 <sup>bb)</sup>	–	–	–	–	–
	EPE-159	750 000 <sup>bb)</sup>	–	–	–	–	–	–
	EPE-160	200 000	–	–	–	–	–	–
Conectiv Energy Supply Inc.	EPE-213	5 000 000	–	–	–	–	–	–
Consumers Energy Company	EPE-218	–	24 000 000 <sup>cc)</sup>	–	–	–	–	–
	EPE-219	16 000 000	–	–	–	–	–	–
Constellation Energy Commodities Group, Inc.	EPE-139	5 256 000 <sup>dd)</sup>	–	–	–	–	–	–
Constellation NewEnergy, Inc.	EPE-265	–	1 744 000	–	–	–	–	–
Coral Energy Canada Inc.	EPE-173	–	5 000 000	–	–	–	–	–
The Detroit Edison Company	EPE-205	8 760 000	–	–	–	–	–	–
Direct Energy Marketing Limited	EPE-199	–	8 760 000	–	–	–	–	–
Duke Energy Marketing Canada Corp.	EPE-238	–	2 000 000 <sup>ee)</sup>	–	–	–	–	–
	EPE-239	2 000 000	–	–	–	–	–	–
Duke Energy Marketing Canada Ltd.	EPE-135 <sup>*</sup>	–	2 000 000 <sup>ff)</sup>	–	–	–	–	–
	EPE-136 <sup>*</sup>	2 000 000 <sup>ff)</sup>	–	–	–	–	–	–
Dynergy Power Marketing, Inc.	EPE-210	–	1 200 000	–	–	–	–	–
	EPE-211	1 200 000	–	–	–	–	–	–
Edison Mission Marketing & Trading Inc.	EPE-120	–	432 000	–	–	–	–	–
	EPE-121	2 160 000	–	–	–	–	–	–
Emera Energy Inc.	EPE-216	–	4 800 000 <sup>gg)</sup>	–	–	–	–	–
	EPE-217	4 800 000	–	–	–	–	–	–
EnCana Energy Services Inc.	EPE-182	–	5 000 000	–	–	–	–	–
	EPE-183	5 000 000	–	–	–	–	–	–
Engage Energy Canada, L.P.	EPE-96	–	3 000 000 <sup>hh)</sup>	–	–	–	–	–
	EPE-97	3 000 000 <sup>hh)</sup>	–	–	–	–	–	–
Engage Energy US L.P.	EPE-151 <sup>*</sup>	–	2 234 000	–	–	–	–	–
	EPE-152 <sup>*</sup>	7 508 000	–	–	–	–	–	–
Enmax Energy Marketing Inc.	EPE-170 <sup>*</sup>	3 504 000	–	–	–	–	–	–
	EPE-277	3 504 000	–	–	–	–	–	–
	EPE-278	–	8 760 000	–	–	–	–	–

**E6. ELECTRICITY EXPORTS – 2005 (CONTINUED)**  
(megawatt hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange <sup>o)</sup>	Firm	Interruptible
EPCOR Merchant and Capital Inc.	EPE-186	–	10 541 000	–	–	–	–	–
Exelon Generation Company, LLC	EPE-214	–	1 000 000	–	–	–	–	–
	EPE-215	4 380 000	–	–	–	–	–	–
FortisOntario Inc.	EPE-84	656 000	–	–	–	–	–	–
	EPE-149	250 000 <sup>ii)</sup>	–	–	–	–	–	–
	EPE-150	–	250 000 <sup>ii)</sup>	–	–	–	–	–
Hydro-Québec	EL-185	7 028 000	–	–	–	–	–	–
Independent Electricity Market Operator	EPE-177	–	23 360 000	–	–	–	–	–
Inland Pacific Energy Services, Ltd.	EPE-106	–	2 000 000 <sup>kk)</sup>	–	–	–	–	–
	EPE-107	2 000 000 <sup>kk)</sup>	–	–	–	–	–	–
Lighthouse Energy Trading Company	EPE-274	–	1 752 000	–	–	–	–	–
	EPE-272	2 628 000	–	–	–	–	–	–
MAG Energy Solutions Inc.	EPE-256	4 380 000 <sup>ll)</sup>	–	–	–	–	–	–
Marketing D'Énergie HQ Inc.	EPE-130	30 000 000 <sup>h)</sup>	–	–	–	–	–	–
Merrill Lynch Commodities Canada, ULC	EPE-226	–	1 200 000	–	–	–	–	–
Merrill Lynch Commodities, Inc.	EPE-153	–	5 000 000 <sup>ii)</sup>	–	–	–	–	–
	EPE-154	5 000 000 <sup>ii)</sup>	–	–	–	–	–	–
Mirant Americas Energy Marketing, LP.	EPE-142	–	3 000 000	–	–	–	–	–
	EPE-143	2 000 000	–	–	–	–	–	–
Montenay Inc.	EPE-228	–	200 000 <sup>mm)</sup>	–	–	–	–	–
	EPE-229	200 000	–	–	–	–	–	–
Montwegan International Energia Resorce Inc.	EPE-108	–	8 760 000 <sup>nn)</sup>	–	–	–	–	–
	EPE-109	8 760 000 <sup>nn)</sup>	–	–	–	–	–	–
Morgan Stanley Capital Group Inc.	EPE-180	–	779 000	–	–	–	–	–
	EPE-181	1 557 000	–	–	–	–	–	–
New Brunswick Power Corporation	EPE-28	1 000	–	–	–	–	–	–
New York Power Authority	EPE-246	–	2 000 000 <sup>oo)</sup>	–	–	–	–	–
	EPE-247	2 000 000 <sup>oo)</sup>	–	–	–	–	–	–
Nexen Marketing	EPE-194	–	5 000 000	–	–	–	–	–
	EPE-195	5 000 000	–	–	–	–	–	–
Northern States Power Company	EPE-234	–	800 000	–	–	–	–	–
	EPE-235	800 000	–	–	–	–	–	–
NorthPoint Energy Solutions Inc.	EPE-89	7 008 000 <sup>pi)</sup>	–	–	–	–	–	–
Nova Scotia Power Inc.	EPE-123	1 200 000 <sup>q)</sup>	–	–	–	–	–	–

**E6. ELECTRICITY EXPORTS – 2005 (CONTINUED)**  
(megawatt hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange <sup>o)</sup>	Firm	Interruptible
NRG Power Marketing Inc.	EPE-171	–	1 000 000	–	–	–	–	–
	EPE-172	2 000 000	–	–	–	–	–	–
OGE Energy Resources, Inc.	EPE-197	–	250 000	–	–	–	–	–
	EPE-198	1 500 000	–	–	–	–	–	–
Ontario Power Generation Inc. (OPGI)	EPE-110	150	–	–	–	–	–	–
PG&E Energy Trading – Power L.P.	EPE-145	–	5 000 000	–	–	–	–	–
	EPE-146	5 000 000	–	–	–	–	–	–
Powerex Corp	EPE-117	20 000 000	–	–	–	–	–	–
	EPE-119	15 000 000	–	–	–	–	–	–
PPL EnergyPlus, LLC	EPE-241	–	4 380 000	–	–	–	–	–
	EPE-242	4 380 000	–	–	–	–	–	–
Public Service Company of Colorado	EPE-232	–	800 000	–	–	–	–	–
	EPE-233	800 000	–	–	–	–	–	–
Rainbow Energy Marketing Corporation	EPE-262	4 380 000	–	–	–	–	–	–
Reliant Energy Services Canada, Ltd.	EPE-201*	–	5 000 000	–	–	–	–	–
	EPE-202*	5 000 000	–	–	–	–	–	–
Saracen Merchant Energy, LP	EPE-275	1 200 000	–	–	–	–	–	–
Sempra Energy Trading Corp.	EPE-156	–	8 760 000	–	–	–	–	–
SESCO Enterprises Canada Ltd.	EPE-248	–	600 000	–	–	–	–	–
Silverhill Ltd.	EPE-279	4 380 000	–	–	–	–	–	–
	EPE-280	–	4 380 000	–	–	–	–	–
Split Rock Energy LLC	EPE-220	–	600 000	–	–	–	–	–
Sonat Power Marketing Inc. and Sonat Power Marketing L.P.	EPE-103*	–	3 500 000 <sup>pp)</sup>	–	–	–	–	–
	EPE-104*	3 500 000 <sup>pp)</sup>	–	–	–	–	–	–
St. Clair Tunnel Company	EPE-70	6	–	–	–	–	–	–
Teck Cominco Metals Ltd.	EPE-243	–	3 500 000 <sup>qq)</sup>	–	–	–	–	–
	EPE-245	250 000	–	–	–	–	–	–
Tractebel Energy Marketing Inc.	EPE-86*	–	8 760 000 <sup>ri)</sup>	–	–	–	–	–
	EPE-87*	8 760 000	–	–	–	–	–	–
TransCanada Energy Ltd.	EPE-79*	1 000 000	–	–	–	–	–	–
	EPE-270	3 000 000	–	–	–	–	–	–
TransCanada Power Marketing Inc.	EPE-184	–	2 000 000	–	–	–	–	–
	EPE-185	2 000 000	–	–	–	–	–	–

**E6. ELECTRICITY EXPORTS – 2005 (CONTINUED)**  
(megawatt hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange <sup>a)</sup>	Firm	Interruptible
TransAlta Energy Marketing Corp. and TransAlta Energy Marketing (U.S.) Inc.	EPE-167	–	8 760 000 <sup>a)</sup>	–	–	–	–	–
UBS AG, London Branch	EPE-98	–	5 000 000 <sup>a)</sup>	–	–	–	–	–
	EPE-99	5 000 000 <sup>a)</sup>	–	–	–	–	–	–
USGen New England, Inc.	EPE-230 <sup>*</sup>	–	4 380 000 <sup>aa)</sup>	–	–	–	–	–
	EPE-231 <sup>*</sup>	4 380 000 <sup>aa)</sup>	–	–	–	–	–	–
Williams Energy Marketing & Trading Canada, Inc.	EPE-208	–	4 000 000	–	–	–	–	–
	EPE-209	4 000 000	–	–	–	–	–	–
<b>Total Canada <sup>ww)</sup></b>				<b>13 081 974</b>	<b>29 848 238</b>	<b>-6 831 015</b>	<b>889 802 556</b>	<b>2 259 606 449</b>

- a) Exchange includes inadvertent and circulating flow, equichange, storage, adjustment transfer, and wheeling or carrier transfer which normally do not have associated revenue.
- b) Total exports shall not exceed 4 800 GW.h less any amount exported under Permit EPE-217.
- c) Total exports shall not exceed 6 482 GW.h less any amount exported under any other electricity export authorization issued to NB Power.
- d) Total combined exports for Permits EPE-122 and EPE-123 shall not exceed 1 200 GW.h.
- e) Total exports shall not exceed 8 760 GW.h less any amount exported under Permit EPE-112.
- f) Total exports shall not exceed 30 000 GW.h less any amount exported under Permit EPE-65.
- g) Total exports shall not exceed 20 000 GW.h less any amount exported under any other electricity export authorization issued to Hydro-Québec except EPE-64.
- h) Total combined exports for Permits EPE-129 and EPE-130 shall not exceed 30 000 000 GW.h.
- i) Total exports shall not exceed 16 650 GW.h less the amount of energy exported under any export authorizations, other than for border accommodations issued to Manitoba Hydro.
- j) Total exports shall not exceed 40 000 GW.h less any amount exported under Permits EPE-117.
- k) Total combined exports for permits EPE-257 and EPE-258 shall not exceed 8 760 GW.h.
- l) Total annual exports must not exceed 438 GW.h in 2001 through 2009, and 146 GW.h in 2010.
- m) Total annual exports shall not exceed 526 GW.h in 2001 through 2008, 350 GW.h in 2009, 263 GW.h in 2010 and 2011, and 88 GW.h in 2012.
- n) Total exports shall not exceed 7 008 GW.h less any amount exported under any other electricity authorization except border accommodations issued to Northpoint.
- o) Total combined exports for Permits EPE-93 and EPE-94 shall not exceed 10 600 GW.h.
- p) Total combined exports for Permits EPE-266 and EPE-267 shall not exceed 2 160 GW.h.
- q) Total exports shall not exceed 8 700 GW.h less any amount exported under EPE-166.
- r) Total combined exports under Permits EPE-126, EPE-127, EPE-192, and EPE-193 shall not exceed the maximum transfer limits of the international power lines.
- s) Energy exported in accordance with the Skagit River Valley Treaty which is not under the Board's jurisdiction.
- t) Total exports shall not exceed 27 000 GW.h less any amount exported under Permits EPE-119.
- u) Total exports shall not exceed 900 GW.h less any amount exported under Permit EPE-223.
- v) Total combined exports for permits EPE-252 and EPE-251 shall not exceed 4 380 GW.h.
- w) Total exports shall not exceed the maximum transfer limits of the international power lines located in BC that are directly interconnected with those of the United States.
- x) Total exports shall not exceed 5 000 GW.h less any amount exported under EPE-179.
- y) Total exports shall not exceed 10 000 000 GW.h less any amount exported under EPE-204.
- z) Total combined exports for Permits EPE-100 and EPE-101 shall not exceed 500 GW.h.
- aa) Total exports shall not exceed 6 310 GW.h less any amount exported under EPE-162.
- bb) Total combined annual exports under Permits EPE-158 and EPE-159 shall not exceed 500 GW.h for years commencing 1 June in 2004 through 2009; 750 GW.h for years commencing 1 June 2001 and 2003; and 1 000
- cc) Total exports shall not exceed 24 000 GW.h less any amount exported under Permits EPE-219.
- dd) Total exports shall not exceed 5 256 GW.h less any amount in excess of 876 GW.h exported under EPE-138.
- ee) Total exports shall not exceed 2 000 GW.h less any amount exported under EPE-239.
- ff) Total combined exports under Permits EPE-135 and EPE-136 shall not exceed 2 000 GW.h.
- gg) Total exports shall not exceed 4 800 GW.h less any amount exported under EPE-217.
- hh) Total combined exports under Permits EPE-96 and EPE-97 shall not exceed 3 000 GW.h.
- ii) Total combined exports under Permits EPE-153 and EPE-154 shall not exceed 5 000 GW.h.
- jj) Total combined exports for Permits EPE-149 and EPE-150 shall not exceed 250 GW.h.
- kk) Total combined exports for Permits EPE-106 and EPE-107 shall not exceed 2 000 GW.h.
- ll) Total exports under permits EPE-255 and EPE-256 shall not exceed 4 380 GW.h
- mm) The amount of exports allowed under EPE-228 will be reduced by the amount exported under EPE-229.



- nn) Total combined exports for Permits EPE-108 and EPE-109 shall not exceed 8760 GW.h.  
 oo) Total exports under permits EPE-246 and EPE-247 shall not exceed 2 000 GW.h  
 pp) Total combined exports under Permits EPE-103 and EPE-104 shall not exceed 3 500 GW.h.  
 qq) Total exports shall not exceed 3 500 GW.h less any exports under EPE-244.  
 rr) Total exports shall not exceed 8 760 GW.h less any amount exported under EPE-87.  
 ss) Total exports shall not exceed 8 760 GW.h less any amount exported under EPE-168.  
 tt) Total combined exports under Permits EPE-98 and EPE-99 shall not exceed 5 000 GW.h.  
 uu) Total combined exports for Permits EPE- 230 and EPE-231 shall not exceed 4 380 GW.h.  
 vv) Total annual exports shall not exceed 2 940 GW.h in 2005, 4 392 GW.h annually during the period 2006 to 2014 inclusive and 1 440 GW.h in 2015.  
 ww) Excludes \$16,252,600 revenue for spinning reserve, transmission, unit rental and storage transfer charges.  
 xx) Exporters that did not export from Canada in 2005.  
 \* Expired during 2005.

## E7. ELECTRICITY TRADE BETWEEN CANADA AND THE UNITED STATES BY PROVINCE <sup>a)</sup> (megawatt hours)

Province	Region / State	Export <sup>b)</sup>	Import <sup>c)</sup>	Net Export <sup>b,c)</sup>
Nova Scotia	Maine	104 282		104 282
	New England <sup>d)</sup>	143		143
	Pennsylvania		69 297	-69 297
<b>Total Nova Scotia</b>		<b>104 425</b>	<b>69 297</b>	<b>35 128</b>
New Brunswick	Maine	2 890 174	56 504	2 833 670
	New York	25 143		25 143
	New England <sup>d)</sup>	39 556		39 556
<b>Total New Brunswick</b>		<b>2 954 873</b>	<b>56 504</b>	<b>2 898 369</b>
Québec	Maine	768 884	97 295	671 589
	Massachusetts	4 032		4 032
	New England <sup>d)</sup>	3 764 468	686 036	3 078 432
	New York	4 161 662	2 488 584	1 673 078
	Vermont	1 866 081		1 866 081
<b>Total Québec</b>		<b>10 565 127</b>	<b>3 271 915</b>	<b>7 293 212</b>
Ontario	Illinois	1 138	19 136	-17 998
	Indiana	11 767	887	10 880
	Iowa		600	-600
	Kansas		253	-253
	Kentucky		250	-250
	Massachusetts	59 125	4 623	54 502
	Michigan	1 681 055	4 380 166	-2 699 111
	Minnesota	128 290	2 805 791	-2 677 501
	Missouri	12 281	2 087	10 194
	New England <sup>d)</sup>	78 389		78 389
	New York	6 530 288	926 918	5 603 370
	North Dakota		1 026	- 1 026
	Ohio	48 807	396 514	- 347 707
	Oklahoma		342	- 342
	Pennsylvania	30 410	247 241	- 216 831
	South Dakota		150	- 150
Texas		3 379	- 3 379	
<b>Total Ontario</b>		<b>8 581 550</b>	<b>8 789 363</b>	<b>- 207 813</b>

**E7. ELECTRICITY TRADE BETWEEN CANADA AND THE UNITED STATES BY PROVINCE <sup>a)</sup> (CONTINUED)**  
(megawatt hours)

Province	Region / State	Export <sup>b)</sup>	Import <sup>c)</sup>	Net Export <sup>b)c)</sup>
Manitoba	ND/Minnesota	11 399 022	230 676	11 168 346
	Minnesota	699 689		699 689
<b>Total Manitoba</b>		<b>12 098 711</b>	<b>230 676</b>	<b>11 868 035</b>
Saskatchewan	North Dakota	691 397	426 913	264 484
<b>Total Saskatchewan</b>		<b>691 397</b>	<b>426 913</b>	<b>264 484</b>
Alberta	North Dakota	925		925
	Minnesota		7 266	- 7 266
	Montana		1 318	- 1 318
	Oregon	3 403		3 403
	Washington	81 358	443 143	- 361 785
<b>Total Alberta</b>		<b>85 686</b>	<b>451 727</b>	<b>- 366 041</b>
British Columbia	Alaska	<b>1 303</b>		<b>1 303</b>
	Arizona	97 635	106 049	- 8 414
	California	168 192		168 192
	Colorado	28 092	194	27 898
	Idaho	89 112		89 112
	Indiana	1		1
	Iowa	2	220	- 218
	Massachusetts		130	- 130
	Missouri	27		27
	Montana	109 021	98 289	10 732
	Nebraska	306	4 443	- 4 137
	Nevada	404 302	42 720	361 582
	New Mexico	126 062	97 762	28 300
	Oregon	4 283 748	445 386	3 838 362
	Utah	41 801	824	40 977
	Washington	2 451 160	5 094 226	-2 643 066
Wisconsin	68		68	
Wyoming	47 611	145 487	- 97 876	
<b>Total British Columbia</b>		<b>7 848 443</b>	<b>6 035 730</b>	<b>1 812 713</b>
<b>Total</b>		<b>42 930 212</b>	<b>19 332 125</b>	<b>23 598 087</b>

a) Sales and purchases only; excludes exchanges

b) Sales to the United States

c) Purchases from the United States.

d) Trade with the New England Power Pool - quantities to each state cannot be accurately determined.

**E8. ELECTRICITY TRADE BETWEEN CANADA AND THE UNITED STATES BY REGION/STATE <sup>a)</sup>**  
*(megawatt hours)*

<b>Region / State</b>	<b>Province</b>	<b>Import <sup>b)</sup></b>	<b>Net Import <sup>c)</sup></b>	<b>Net Import <sup>b)c)</sup></b>
<b>New England</b>				
<b>Maine</b>	New Brunswick	2 890 174	56 504	2 833 670
	Nova Scotia	104 282		104 282
	Québec	768 884	97 295	671 589
<b>Massachusetts</b>	Ontario	59 125	4 623	54 502
	British Columbia		130	- 130
	Québec	4 032		4 032
<b>New England<sup>d)</sup></b>	New Brunswick	39 556		39 556
	Nova Scotia	143		143
	Ontario	78 389		78 389
	Québec	3 764 468	686 036	3 078 432
<b>Vermont</b>	Québec	1 866 081		1 866 081
<b>Total New England</b>		<b>9 575 134</b>	<b>844 588</b>	<b>8 730 546</b>
<b>Pennsylvania</b>				
	Ontario	30 410	247 241	- 216 831
	Nova Scotia		69 297	- 69 297
<b>Total Pennsylvania</b>		<b>30 410</b>	<b>316 538</b>	<b>- 286 128</b>
<b>New York</b>				
	New Brunswick	25 143		25 143
	Ontario	6 530 288	926 918	5 603 370
	Québec	4 161 662	2 488 584	1 673 078
<b>Total New York</b>		<b>10 717 093</b>	<b>3 415 502</b>	<b>7 301 591</b>
<b>Washington</b>				
	Alberta	81 358	443 143	- 361 785
	British Columbia	2 451 160	5 094 226	-2 643 066
<b>Total Washington</b>		<b>2 532 518</b>	<b>5 537 369</b>	<b>-3 004 851</b>
<b>Central</b>				
<b>Michigan</b>	Ontario	1 681 055	4 380 166	-2 699 111
<b>Missouri</b>	Ontario	12 281	2 087	10 194
	British Columbia	27		27
<b>Indiana</b>	British Columbia	1		1
	Ontario	11 767	887	10 880
<b>Illinois</b>	Ontario	1 138	19 136	- 17 998
<b>Kentucky</b>	Ontario		250	- 250
<b>Ohio</b>	Ontario	48 807	396 514	- 347 707
<b>Wisconsin</b>	British Columbia	68		68
<b>Total Central</b>		<b>1 755 144</b>	<b>4 799 040</b>	<b>-3 043 896</b>

**E8. ELECTRICITY TRADE BETWEEN CANADA AND THE UNITED STATES BY REGION/STATE <sup>a)</sup> (CONTINUED)**  
(megawatt hours)

Region / State	Province	Import <sup>b)</sup>	Net Import <sup>c)</sup>	Net Import <sup>b)c)</sup>
<b>Midwest</b>				
Minnesota	Alberta		7 266	- 7 266
	Manitoba	699 689		699 689
	Ontario	128 290	2 805 791	-2 677 501
Iowa	Ontario		600	- 600
	British Columbia	2	220	- 218
ND/Minn	Manitoba	11 399 022	230 676	11 168 346
North Dakota	Ontario		1 026	- 1 026
	Alberta	925		925
	Saskatchewan	691 397	426 913	264 484
South Dakota	Ontario		150	- 150
Kansas	Ontario		253	- 253
Nebraska	British Columbia	306	4 443	- 4 137
Oklahoma	Ontario		342	- 342
Texas	Ontario		3 379	- 3 379
<b>Total Midwest</b>		<b>12 919 631</b>	<b>3 481 059</b>	<b>9 438 572</b>
<b>Western</b>				
Alaska	British Columbia	1 303		1 303
Arizona	British Columbia	97 635	106 049	- 8 414
California	British Columbia	168 192		168 192
Colorado	British Columbia	28 092	194	27 898
Idaho	British Columbia	89 112		89 112
Montana	Alberta		1 318	- 1 318
	British Columbia	109 021	98 289	10 732
Nevada	British Columbia	404 302	42 720	361 582
New Mexico	British Columbia	126 062	97 762	28 300
	Alberta	3 403		3 403
Oregon	British Columbia	4 283 748	445 386	3 838 362
	British Columbia	41 801	824	40 977
Wyoming	British Columbia	47 611	145 487	- 97 876
<b>Total Western</b>		<b>5 400 282</b>	<b>938 029</b>	<b>4 462 253</b>
<b>Total</b>		<b>42 930 212</b>	<b>19 332 125</b>	<b>23 598 087</b>

a) Sales and purchases only; excludes exchanges.

b) Purchases from Canada

c) Sales to Canada

d) Trade with the New England Power Pool – quantities to each state cannot be accurately determined

## **METRIC CONVERSION TABLE**

The Board uses the International System of Units. The energy content of a 30-litre tank of gasoline is approximately one gigajoule. A petajoule is one million gigajoules. On average, Canada consumes about one petajoule of energy every 50 minutes for all uses (heat, light and transportation).

The following conversion table is provided for the convenience of readers who may be more familiar with the Imperial System.

### **APPROXIMATE CONVERSION FACTORS**

metre	=	3.28 feet
kilometre	=	0.62 mile
hectare	=	2.47 acres
cubic metre of oil	=	6.3 barrels
cubic metre of natural gas	=	35.3 cubic feet
gigajoule	=	0.95 thousand cubic feet of natural gas at 1 000 Btu per cubic foot or 0.165 barrels of oil, or 0.28 megawatt hours of electricity
gigajoule	=	10 <sup>9</sup> joules
petajoule	=	10 <sup>15</sup> joules
gigawatt hour	=	10 <sup>6</sup> kilowatt hours
terawatt hour	=	10 <sup>9</sup> kilowatt hours

